

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1345452

Luminaire Tested: P3A13R359035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

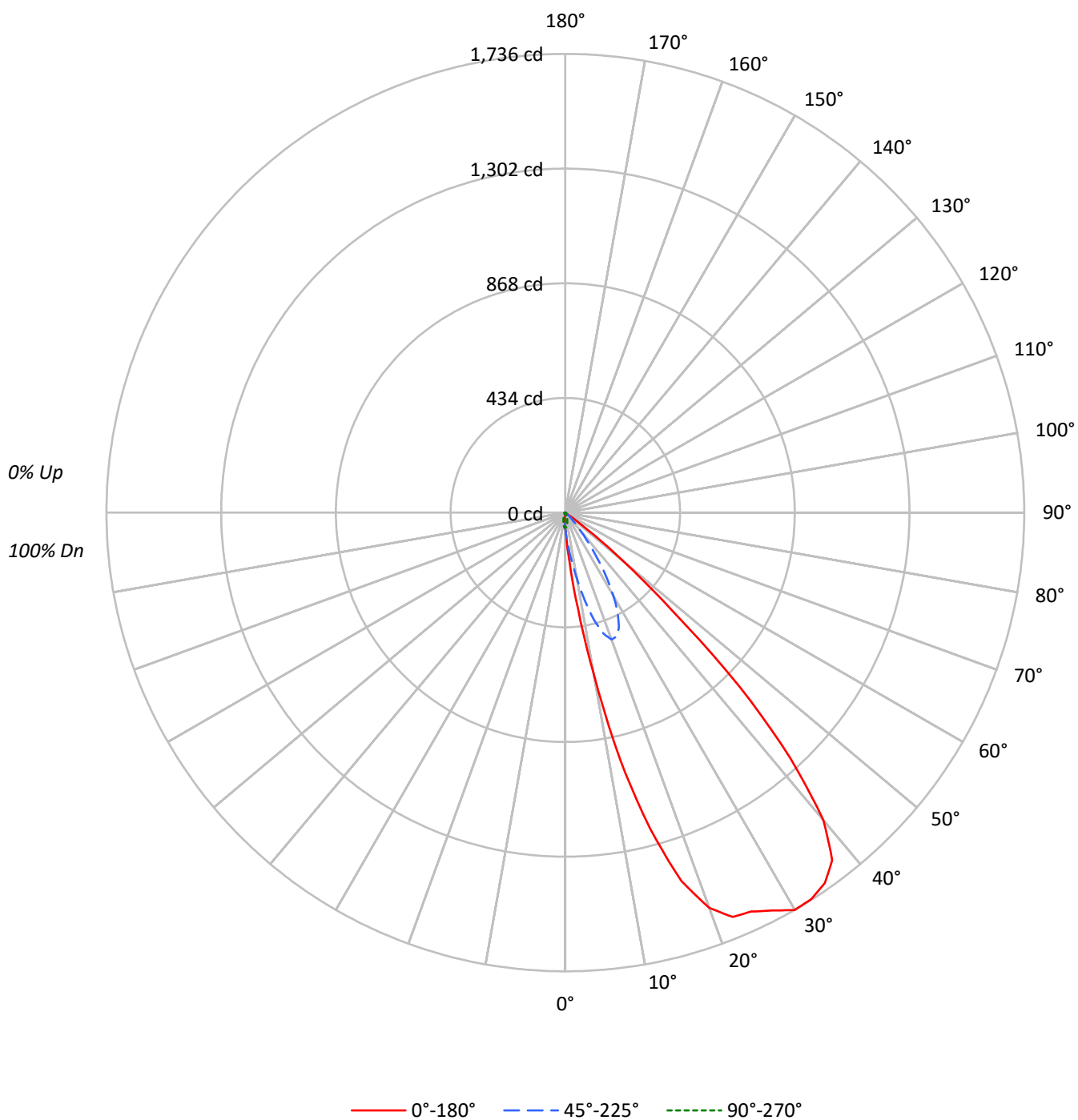
Lumens per Lamp: N/A
Luminaire Lumens: 546.1 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1345452

CATALOG NUMBER: P3A13R359035DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1345452

CATALOG NUMBER: P3A13R359035DE010 E3A301WMH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	84	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	76	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	69	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	62	62	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	42	42	41
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12565	12565	12565	12565	12565
5°	42835	27845	11754	4953	3676
10°	137829	56423	9285	1848	1202
15°	280842	95687	6561	658	454
20°	371359	119174	4224	233	233
25°	402943	115870	2371	121	242
30°	439561	92343	987	127	253
35°	458021	57474	268	134	268
40°	434643	25104	143	286	429
45°	290139	10017	155	465	775
50°	97327	1672	341	682	989
55°	5429	191	382	956	1300
60°	439	219	658	1096	1491
65°	519	259	778	1297	1764
70°	321	321	962	1603	1859
75°	424	424	1271	1694	2118
80°	0	631	1894	1894	1894
85°	0	1258	3774	1258	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 290139 cd/sqm

TEST NUMBER: P1345452

CATALOG NUMBER: P3A13R359035DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	1.8
10°-20°	78.4	14.4
20°-30°	165.5	30.3
30°-40°	187.8	34.4
40°-50°	92.4	16.9
50°-60°	8.0	1.5
60°-70°	1.6	0.3
70°-80°	1.5	0.3
80°-90°	0.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	253.9	46.5
0°-40°	441.7	80.9
0°-60°	542.1	99.3
0°-90°	546.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	546.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	195	126	53	22	17	32
15°	1237	422	29	3	2	352
25°	1665	479	10	0	1	775
35°	1711	215	1	0	1	1055
45°	936	32	0	2	2	691
55°	14	0	1	2	3	56
65°	1	0	2	2	3	1
75°	0	0	2	2	2	0
85°	0	0	2	0	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1345452

CATALOG NUMBER: P3A13R359035DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
2.5°	99.5	101.9	101.0	100.5	100.0	98.0	93.6	93.1	88.7	85.8	71.1
5°	194.6	190.7	191.6	186.2	179.4	169.6	163.2	149.5	138.2	126.5	82.8
7.5°	366.6	361.2	350.9	335.2	319.1	298.0	266.1	240.7	211.2	183.3	92.1
10°	619.0	616.1	602.9	562.7	527.4	471.0	418.1	362.2	307.3	253.4	98.5
12.5°	956.2	936.1	912.1	858.7	789.1	718.5	614.1	517.6	429.8	339.7	99.0
15°	1237.1	1224.3	1190.5	1120.9	1037.1	935.2	811.2	681.3	548.9	421.5	94.1
17.5°	1463.0	1443.4	1399.8	1331.7	1235.1	1102.8	957.7	799.4	638.1	479.8	85.8
20°	1591.4	1581.1	1547.8	1479.7	1374.3	1229.7	1064.5	880.3	694.0	510.7	75.0
22.5°	1656.1	1648.8	1624.3	1569.9	1471.4	1325.8	1136.6	922.4	710.2	507.3	63.7
25°	1665.4	1663.5	1642.4	1601.2	1518.9	1374.8	1168.0	930.3	697.0	478.9	52.9
27.5°	1697.8	1690.9	1665.9	1624.8	1541.9	1383.1	1157.2	903.3	654.3	428.9	44.1
30°	1736.0	1731.1	1706.1	1663.5	1565.5	1375.3	1119.0	843.5	586.2	364.7	32.8
32.5°	1733.1	1731.1	1710.0	1665.0	1548.8	1329.2	1050.8	753.8	493.6	287.7	20.6
35°	1711.0	1704.2	1677.7	1608.1	1453.7	1210.6	921.4	632.3	390.6	214.7	13.2
37.5°	1658.1	1643.4	1598.8	1480.7	1283.6	1027.8	750.4	488.2	276.4	143.6	8.3
40°	1518.4	1499.8	1410.1	1267.5	1061.1	809.7	558.3	335.7	182.3	87.7	3.4
42.5°	1259.6	1221.9	1132.2	985.6	792.0	572.5	366.6	217.6	107.3	52.9	1.0
45°	935.6	906.7	812.6	679.8	519.0	367.1	222.0	117.6	59.3	32.3	0.5
47.5°	545.0	527.4	478.9	391.6	286.7	192.6	113.7	63.2	34.8	15.7	0.5
50°	285.3	263.2	226.4	171.5	126.5	88.7	55.4	33.8	17.2	4.9	0.5
52.5°	100.0	98.5	89.7	67.6	54.9	39.7	27.0	14.7	4.9	1.0	0.5
55°	14.2	14.2	13.2	14.7	15.7	14.2	9.3	3.9	1.0	0.5	0.5
57.5°	1.0	1.0	1.0	1.5	2.0	2.0	1.5	0.5	0.5	0.5	1.0
60°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1345452

CATALOG NUMBER: P3A13R359035DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	57.3	57.3	57.3	57.3	57.3
2.5°	56.9	45.6	36.3	31.9	30.4
5°	53.4	34.3	22.5	17.6	16.7
7.5°	47.5	24.5	13.7	9.8	9.3
10°	41.7	17.6	8.3	5.9	5.4
12.5°	34.8	12.3	5.4	3.4	2.9
15°	28.9	8.3	2.9	2.5	2.0
17.5°	23.0	5.4	2.0	1.5	2.0
20°	18.1	3.4	1.0	1.0	1.0
22.5°	13.7	2.0	1.0	1.0	1.0
25°	9.8	1.0	0.5	0.5	1.0
27.5°	6.9	0.5	0.5	0.5	1.0
30°	3.9	0.5	0.5	0.5	1.0
32.5°	2.0	0.5	0.5	1.0	1.0
35°	1.0	0.5	0.5	1.0	1.0
37.5°	0.5	0.5	0.5	1.0	1.5
40°	0.5	0.5	1.0	1.5	1.5
42.5°	0.5	0.5	1.0	1.5	2.0
45°	0.5	1.0	1.5	2.0	2.5
47.5°	1.0	1.0	2.0	2.5	2.9
50°	1.0	1.5	2.0	2.9	2.9
52.5°	1.0	1.5	2.5	2.9	3.4
55°	1.0	2.0	2.5	3.4	3.4
57.5°	1.5	2.0	2.5	3.4	3.4
60°	1.5	2.0	2.5	3.4	3.4
62.5°	1.5	2.0	2.5	3.4	3.4
65°	1.5	2.0	2.5	3.4	3.4
67.5°	1.5	2.0	2.5	2.9	3.4
70°	1.5	2.0	2.5	2.9	2.9
72.5°	2.0	2.0	2.5	2.9	2.9
75°	1.5	2.0	2.0	2.5	2.5
77.5°	1.5	1.5	1.5	2.0	2.0
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.0	1.0	1.5	1.5
85°	1.5	1.0	0.5	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)